

# King County DNRP Water Quality Index

STATION **470** WATER YEAR **2014**

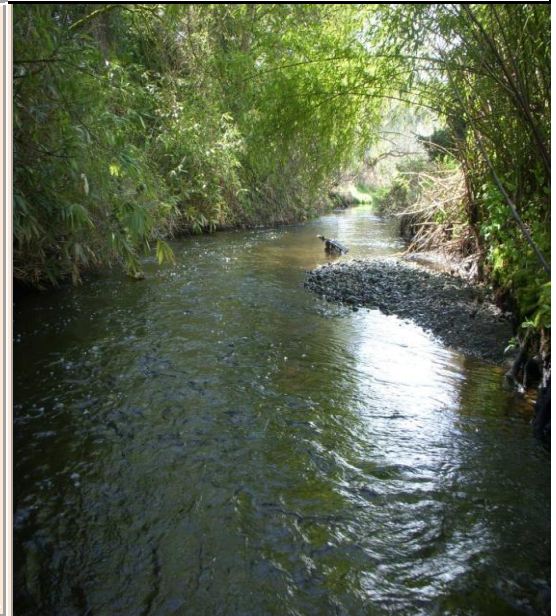
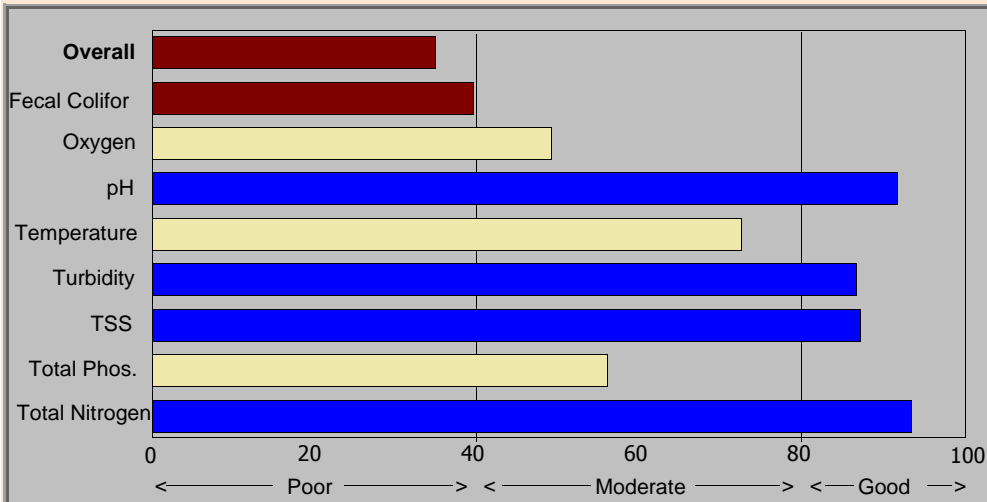
**GAUGE # 56A Swamp Creek at Bothell Way**

**Overall Index 35**

King County has monitored water quality in Swamp Creek at two locations. Station 0470 is located at the USGS Gaging station near Bothell Way and 80th Ave North. Monitoring at this station began in 1972 and continues today. The Swamp Creek basin encompasses 15,000 acres and includes portions of the communities of Lynnwood, Everett, Bothell, and Kenmore. The creek originates south of Everett and flows 10.9 miles before draining into the Sammamish River. The watershed is heavily urbanized with 52% of the watershed area covered by impervious surface compared to just 19% forested. This increased urbanization has resulted in greater intensity and duration peak flows and diminished summer flows. Consequently, over-widening of the stream channel, heavy bank erosion, and stream bed scour has left salmon habitat degraded throughout much of the basin. Swamp Creek is listed as high concern in the 2013 WQI Report, primarily due to high bacteria and low dissolved oxygen concentrations.

## Annual Water Quality Index Scores

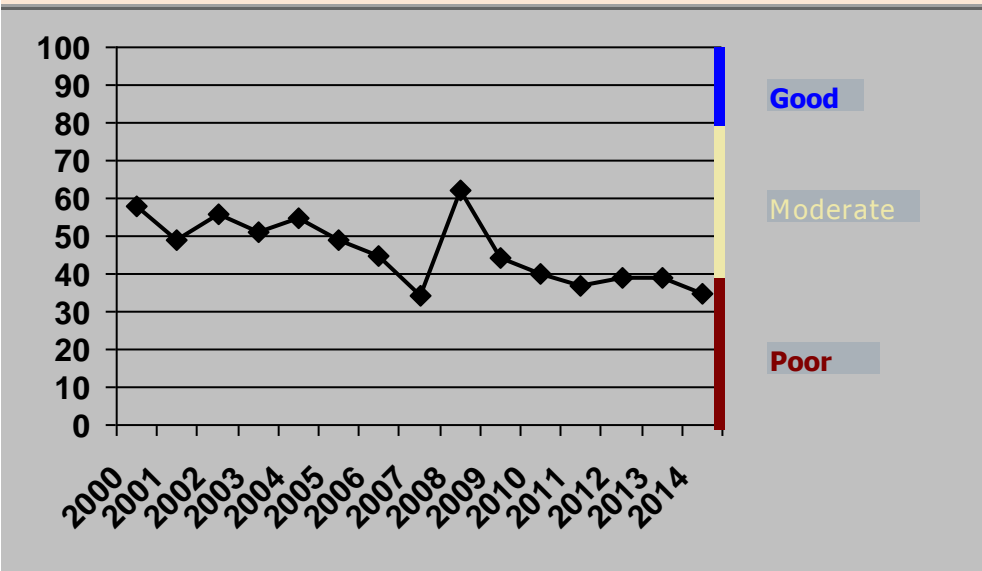
Water quality was POOR based on data collected 10/1/2013 to 9/30/2014.



## Monthly Scores For Water Year 2014

Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
70	82	67	94	93	71	84	56	68	49	1	56

## WQI Score Comparison By Water Year



## About The Water Quality Index:

The Water Quality Index (WQI) score is a unit-less number ranging from 10 to 100: the higher the number, the higher the water quality. Scores are calculated from data collected during the monthly routine sampling. For temperature, pH, fecal coliform bacteria, turbidity, and dissolved oxygen, the index expresses results relative to levels required to maintain beneficial uses according to criteria in Washington's Water Quality Standards, WAC 173-201A. For nutrient and sediment measures where there are no standard, results are expressed relative to guidelines for this eco-region. Results from the eight parameters are aggregated over time to produce a single score for each sample station. In general, stations scoring 80 and above did not fail water quality standards or guidelines and are of "low concern", scores 40 to 80 indicate "moderate concern", and water quality at stations with scores below 40 are of "high concern". For more information about the WQI please visit <http://green.kingcounty.gov/WLR/Waterres/StreamsData/WQI.aspx>

For more information about this creek please visit our website at <http://green.kingcounty.gov/WLR/Waterres/StreamsData/streamlist.aspx>